PRICE LIST



Laboratories of the Institute of Geology, Czech. Acad. Sci.



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Introduction

Before the start of the work, it is recommended to read the requirements for samples submitted for the respective analyses, or to address the respective contact persons (in the order given in the booklet) to consult the details and the time needed for the analyses to be completed. The samples should be clearly labelled including a reference to the person responsible. Results of the analyses will be released, together with the spared/excess sample portions (if required), in the form agreed upon during the submission (printed reports, electronic outputs, etc.). The prices are tentative in some cases; ultimate prices depend on sample types, adjustments needed against the standard setup of laboratory devices, numbers of samples etc.

Comments on individual categories covered by the price list, explanation of price categories

The prices presented in the tables below are in Czech Crowns (CZK) and vary with respect to the actual exchange rate of CZK to Euro (EUR). The actual exchange rate can be found, for example, here: https://www.cnb.cz/en/index.html.

Code	Service / device	Matrix/material (stated within some services)	Unit	Price (CZK)
Code on the basis of which the services can be ordered.	A simplified description of the service or method employed. The laboratory device is specified where needed.	Type of matrix or material required for the analysis (unless otherwise agreed upon)	Units used for price calculation (hour/sample/ spectrum/ pattern, etc.)	Prices in Czech. These prices are liable to VAT in compliance with regulations effective at the time of invoicing.

Addresses and locations:

Main Research Centre at Lysolaje

Rozvojová 269 165 00 Praha 6 – Lysolaje Czech Republic Laboratory of sample preparation (grinding shop)

Laboratory of electron beam analysis (scanning electron microscopy and chemical microanalysis)

Laboratory of Raman and infrared spectroscopy

Laboratory of X-ray diffraction

Laboratories of physico-chemical parameters determination

Laboratories of element determination Laboratory of mineral separation Clean and ICP-MS/TIMS laboratory Fission track analysis (FTA) laboratory Field gamma-ray spectrometry

Soil/sedimentological descriptions and analyses

Micropaleontological analysis Information Centre and Library

Research Centre at Průhonice

252 43 Průhonice Czech Republic Sample preparation for paleomagnetic and rock magnetic studies

Paleomagnetic study

Study of rock magnetic properties

Other magnetic methods

Research Centre at Puškinovo náměstí

Puškinovo náměstí 9 160 00 Praha 6 – Bubeneč Czech Republic **Department of Physical Properties of Rocks**



Department of Analytical Methods

Laboratory of sample preparation (grinding shop)

Specifications for samples (price variations)/notes: Samples should be provided cleaned and marked appropriately with a detailed description of the required type of processing. In general, it is strongly recommended to consult the sample processing directly with a technician. In the case of larger or repeated orders, it is possible to negotiate contractual prices.

Contact: Jaroslava Jabůrková, jaburkova@gli.cas.cz, +420 233 087 244; Roman Skála, skala@gli.cas.cz, +420 233 087 249

Code	Service / product	Unit	Price (CZK)
380.1.1	Covered thin section, standard size	sample	400
380.1.2	Covered thin section, standard size, oriented	sample	500
380.1.3	Covered thin section, friable material	sample	550
380.1.4	Covered thin section, friable material, oriented	sample	600
380.1.5	Covered thin section, heavily friable material	sample	700
380.1.6	Polished thin section, standard size	sample	700
380.1.7	Polished thin section, standard size, friable	sample	800
380.1.8	Polished thin section from multiple grains, standard size	sample	800
380.1.9	Polished section, diameter of 2.5 cm (1 inch)	sample	550
380.1.10	Polished section, diameter of 2.5 cm (1 inch) from multiple grains	sample	700
380.1.11	Polished section, diameter of 3 cm	sample	600
380.1.12	Polished section, diameter of 3 cm from multiple grains	sample	800
200 4 42	Louis this section 4.2 are	la	price by
380.1.13	Large thin section 4×3 cm	sample	agreement
200 1 14	Cutting 9 poliching of a plane	1 am²	price by
380.1.14	Cutting & polishing of a plane	1 cm ²	agreement
380.1.15	Re-polishing of (thin) sections	1 cm ²	100
380.1.16	Modification of non-standard polished sections/thin sections for analysis by electron probe microanalyzer (see 380.2.2) or LA-ICP-MS (see 310.5.1, 310.5.2)	sample	price by agreement

Laboratory of electron beam analysis (scanning electron microscopy and chemical microanalysis)

Specifications for samples (price variations)/notes: In case of complex or unusual systems, a surcharge may apply to cover the expenses associated with the development and tuning of specific analytical protocols. The type of samples and their preparation must be consulted with analysts before ordering work. For analyses using an electron microanalyzer (380.2.2) or elemental mapping (380.2.3), we recommend sample preparation in the form of polished (thin) sections at Inst Geol (see services 380.1.6 to 380.1.12). In the case of larger or repeated orders, it is possible to negotiate contractual prices.

Contact: Zuzana Korbelová, korbelova@gli.cas.cz, +420 233 087 214; Noemi Mészárosová, meszarosová@gli.cas.cz; Eva Pecková, peckova@gli.cas.cz, +420 233 087 214; +420 233 087 256/214; Roman Skála, skala@gli.cas.cz, +420 233 087 249

Code	Service / device	Unit	Price (CZK)
380.2.1	Scanning electron microscope TESCAN VEGA3XMU + energy dispersive X-ray spectrometer Oxford Instruments Ultim Max 65 (EDS)	hour	1,400
380.2.2	Electron probe microanalyzer (microprobe) JEOL JXA-8230 with five wave-dispersive X-ray spectrometers (WDS), energy dispersive X-ray spectrometer (EDS) and panchromatic cathodoluminescence detector	hour	1,400
380.2.3	Elemental mapping of large areas of polished (thin) sections with Oxford Instruments Ultim Max EDS using Large Area Mapping (LAM) software. Typically taken overnight or over the weekend. Postprocessing is required (see 380.2.4)*	sample	500
380.2.4	Stitching of maps acquired with LAM (see 380.2.3)	sample	1,200
380.2.5	Carbon-coating of samples for chemical analyses (EDS or WDS) or for back- scattered electron (BSE) imaging [†]	sample	100
380.2.6	Gold-sputtering of samples for secondary electron (SE) imaging	sample	150

^{*}The minimum payment charged for the map collection is for 6 hours regardless of actual time spent by the mapping.

Laboratory of Raman and infrared spectroscopy

Specifications for samples (price variations)/notes: Raman spectra can be acquired from samples including fragments, powders, or polished section or thin sections, or liquids enclosed in suitable thin-walled vials. The samples must not be higher than 25 mm, wider than 80 mm and longer than 100 mm. Weight must not exceed 500 g. The collection of spectra is charged on the common

[†]In the case that the analyses/measurements are made out in our laboratory, the item is not charged.



hourly price basis. Finding of the analysis spot and possible preparation of the sample for measurements (e.g., sample adjusting, photobleaching) are charged extra at the same price as spectra acquisition. Powdered samples are used to collect infrared spectra. **Contact:** Roman Skála, skála@gli.cas.cz, +420 233 087 249; Noemi Mészárosová, meszarosova@gli.cas.cz, +420 233 087 256/214

Code	Service / device	Unit	Price (CZK)
380.3.1	Raman microspectrometer S&I MonoVista CRS+ (location and documentation of measurement spots, selection of suitable excitation laser wavelength, measurement conditions optimization, spectrum collection, etc.)	hour	1,400
380.3.2	Fourier-transform infrared (FTIR) spectrometer <i>Nicolet iS50</i> . Preferably, the spectra are taken by the Attenuated Total Reflection (ATR) technique. It is also possible to take spectra in transmission arrangement (typically in KBr pellet – see 380.3.3)	hour	1,400
380.3.3	Preparation of a KBr pellet	pellet	800
380.3.4	Identification of minerals with the RRUFF database	hour	1,400
380.3.5	Mathematic processing of spectra (baseline correction, band deconvolution)	spectrum	price by agreement

Laboratory of X-ray diffraction

Diffraction patterns are normally collected with an X-ray powder diffractometer **Bruker D8 DISCOVER** in reflection Bragg-Brentano θ –2 θ geometry with CuK α ₁ radiation.

Specifications for samples (price variations)/notes: Sample preparation is not included in the prices for data collection. In case that the sample is not provided ground to a powder of $10-20~\mu m$ grain size, a surcharge of CZK 150 per sample is added to the price of the analysis. Sample weight must not be larger than 500 g. Samples for which the customer explicitly requests their return will be stored for a maximum of 2 months after the analysis has been performed; other samples will be discarded immediately after analysis. In the case of larger or repeated orders, it is possible to negotiate contractual prices.

Contact: Petr Mikysek, mikysek@gli.cas.cz, +420 233 087 289; Roman Skála, skala@gli.cas.cz, +420 233 087 249

Code	Service / device	Unit	Price (CZK)
380.4.1	Acquisition of preliminary overview pattern to optimize subsequent data collection strategy	pattern	400
380.4.2	Data collection for phase identification (typically in the range 3–70 °20 with a step width of 0.02 °20 and exposure of 1 s/step) ¶	pattern	600
380.4.3	Data acquisition of oriented specimens for clay mineral identification (normally in the range 2–40 °2θ with a step width of 0.017 °2θ and exposure of 0.8 s/step)* [†]	pattern	600
380.4.4	Data collection for microstructure analysis, unit-cell dimension refinement, (semi)quantitative analysis or quantitative analysis or crystal structure refinement with the Rietveld method or data collection based on customer request	pattern	price by agreement
380.4.5	Change of diffractometer configuration	once-time payment	10,000
380.4.6	Basic pattern evaluation – calculation of d's & l's	sample	200
380.4.7	Identification of clay minerals [‡]	sample	800
380.4.8	Qualitative phase analysis	sample	600
380.4.9	Semi-quantitative phase analysis of a mixture by the DIFFRAC.EVA# program	sample	1,000
380.4.10	Quantitative phase analysis of a mixture by the Rietveld method ^{&}	sample	price by agreement
380.4.11	Other types of data handling/processing	sample	price by agreement

In the case that the data collection requires, based on the results of the preliminary overview diffraction pattern (380.4.1), a setting resulting in total experimental time exceeding 90 minutes, an extra payment of CZK 400 may be charged for each additional hour of data acquisition.

^{*}Normally, for clay mineral identification, two or three separate diffraction patterns are required for each sample; the first is collected from an oriented specimen of a separated clay fraction; the second is taken after saturating the specimen with ethylene glycol, and a potential third pattern is acquired after heating the sample to 550 °C

[†]Preparation of samples for clay mineral identification is not included in the price of the analysis; payments for the clay sample preparation are charged extra following the pricelist items Separation of clay fraction / Sample saturation by ethylene glycol / Sample heating of the Laboratory of mineral separation (see services 310.1.17 / 310.1.18 / 310.1.14)

[‡]Identification of clay minerals requires a collection of diffraction patterns of oriented specimens (see 380.4.3)

[&]quot;The method requires that the corundum number for each phase in the mixture is available in the ICDD PDF2 database

[®]The method requires that the structure model is known for each phase in the mixture; the results may be negatively influenced by a strong preferred orientation, poor crystallinity and/or the presence of an amorphous phase



Department of Environmental Geology and Geochemistry

Laboratories of physico-chemical parameters determination

Specifications for samples (price variations)/notes: Specific requirements for samples, matrices, etc. are given specifically for each analysis. Prices below are indicative only and may vary depending on the number of samples, the number of analysed elements, matrix, homogeneity of the sample, etc. Details on sample preparation for the required determinations and final costs of laboratory works should be consulted with the lab workers, preferably by email.

Contact: Jan Rohovec, rohovec@gli.cas.cz, +420 233 087 258; Šárka Matoušková, matouskov@gli.cas.cz, +420233 087 212; Tomáš Navrátil, matouskov@gli.cas.cz, +420233 087 222

Code	Service / device	Matrix / material	Unit	Price (CZK)
	Basic sample workup before analysis			
340.352.1	Filtration through a 0.45 μm RC-disc	aqueous solution	sample	75
340.352.2	Filtration through a 0.45 μm (glass fiber disc)	aqueous solution	sample	90
340.352.3	Filtration through a paper filter (blue strip type)	aqueous solution	sample	70
340.352.4	Centrifugation of a liquid sample, 50 ml Apollo vial	aqueous solution	sample	30
	Drying, homogenization, calcination			
340.351.1	Lyophylization of a liquid sample or suspension	liquid or solid material	sample	600
340.346.1	Drying (overnight, dryer at 105 °C)	solid	sample	80
340.346.2	Water loss after drying at 105 °C in a dryer, overnight	solid, powdered	sample	100
340.346.3	Calcination at 550 °C	solid, powdered	sample	180
340.346.4	Weight loss after drying at 900 °C in an oven (LOI)	solid, powdered	sample	180
	Milling, oscillating mill			
340.330.1	Milling vessels: steel	solid	sample	420
340.330.2	Milling vessels: zirconia, without contamination with metals	solid	sample	450
340.330.3	Microscale milling; vessels: zirconia	solid	sample	500
340.330.4	Cryo-milling, T=77 K (liquid N ₂), vessels: steel	solid	sample	800
	Milling, agate ball mill			
340.346.5	Sample homogenisation in an agate mill	solid	sample	150

Code	Service / device	Matrix / material	Unit	Price (CZK)
	Sample decomposition			
340.346.10	Sample decomposition, mixture of HNO₃ and HF in a PTFE beaker	solid, powdered, homogenised	sample	350
340.346.20	Sample decomposition, mixture of ultrapure HNO₃ and HF in a PTFE vessel at normal pressure, for trace element analysis	solid, powdered, homogenised	sample	500
340.346.30	Sample decomposition in a mixture of HNO₃ and HF, pressure ampoule, microwave oven	solid, powdered, homogenised	sample	800

Code	Service / device	Matrix / material	Unit	Price (CZK)
	Soil and sediments analyses			
340.348.1	Extraction according to the Mehlich III protocol. Element analyses please see 340.350.1	solid, powdered, homogenised	sample	150
340.348.2	Extraction with buffered oxalate according to Tamm. Element analyses please see 340.350.1	solid, powdered, homogenised	sample	150
340.348.3	Extraction with buffered citrate (pH 8.5). Element analyses please see 340.350.1	solid, powdered, homogenised	sample	150
340.348.4	Determination of leachable calcium and phosphate, extraction with aq. HCl	solid, powdered, homogenised	sample	420
340.348.5	Determination of pH (active, in suspension)	soil, sieved	sample	100
340.348.6	Determination of pH (exchangable, KCI)	soil, sieved	sample	100
340.348.7	Determination of cationic exchange capacity (Na, K, Mg, Ca) with ammonium acetate	soil, sieved	sample	250
340.348.8	Determination of CEC with barium chloride according to the Mehlich procedure, pH 8.1	soil, sieved	sample	250
340.348.9	Determination of effective sorption capacity ECEC (Na, K, Mg, Ca)	soil, sieved	sample	200
340.348.10	Determination of exchangeable acidity in the extract	soil, sieved	sample	120



340.348.11	Extraction of powdered solid sample with aqua regia.	solid, powdered,	cample	130
340.346.11	Element analyses please see 340.350.1	homogenised	sample	150

Code	Service / device	Matrix / material	Unit	Price (CZK)
	Electrochemical analyses			
340.352.5	Determination of pH (natural water)	aqueous solution	sample	50
340.352.6	Determination of conductivity (natural water)	aqueous solution	sample	50
340.352.7	Determination of fluoride (ISE)	aqueous solution	sample	50

Code	Service / device	Matrix / material	Unit	Price (CZK)
	Determination of anions using technique of high-			
	pressure liquid chromatography – HPLC			
340.352.8	Simultaneous determination of chloride, sulphate and nitrate	not acidified aqueous solution freshly filtered through a 0.45µm filter	sample	220

Code	Service / device	Matrix / material	Unit	Price (CZK)
	Granulometry			
340.G.1	Basic granulometric analysis on a laser granulometer	particle size to 1 mm	sample	300
340.G.2	Granulometric analysis of a carbonate free sample	particle size to 1 mm	sample	300
340.G.3	Granulometric analysis of a sample without organic mas	particle size to 1 mm	sample	300

Laboratories of element determination

Specifications for samples (price variations)/notes: Specific requirements for samples, matrices, etc. are given specifically for each analysis. Prices below are indicative only and may vary depending on the number of samples, the number of analysed elements, matrix, homogeneity of the sample, etc. Details on sample preparation for the required determinations and final costs of laboratory works should be consulted with the lab workers, preferably by email.

Contact: Jan Rohovec, rohovec@gli.cas.cz, +420 233 087 258; Šárka Matoušková, matouskov@gli.cas.cz, +420 233 087 212; Tomáš Navrátil, matouskov@gli.cas.cz, +420 233 087 222

Code	Service / device	Matrix	Unit	Price (CZK)
	ICP OES: optical emission spectroscopy with inductively	filtered liquid		
	coupled plasma	solution, according to		
	coupieu piusmu	e.g. 340.352.1		
340.350.1	Basic set (Al, Ca, Fe, K, Mg, Mn, Na, P, S, Si)	aqueous solution, acidified	sample	480
340.350.2	One element (not included in the basic set) accessible for	salt-free aqueous	cample	100
340.330.2	ICP EOS in concentration 1 - 100 ppm	solution, acidified	sample	100
340.350.3	One element (not included in the basic set) accessible for ICP EOS in concentration 0,5 - 1 ppm. Trace elements typically	salt-free aqueous solution, acidified	sample	150

Code	Service / device	Matrix	Unit	Price (CZK)
	Determination of mercury by CV AAS technique in a solid			
	sample			
340.351.10	Determination of total mercury, THg content in the range	solid, homogenised	sample	150
340.331.10	of 0.2 ng·g ⁻¹ to 150 ng·g ⁻¹ of the sample	powdered	Sample	150.
340.351.20	Determination of total mercury, THg content over 150	solid, homogenised	cample	180
340.331.20	ng·g ⁻¹ of the sample	powdered	sample	100
340.351.30	Determination of total mercury, THg in solid sample	solid, homogenised	sample	200
340.331.30	containing sulphur	solia, nomogenisea	Sample	200
	Ultra trace total mercury determination by CV AFS			
	technique in a liquid sample			
340.351.40	Determination of total mercury by CV AFS, limit of	liquid, stabilised	cample	650
340.351.40	quantification 0.25 ppt Hg	sample, non-foaming	sample	050
	Determination of gaseous Hg ⁰			
	Determination of gaseous mercury Hg ⁰ in the atmosphere	atmosphere at the	1 hour +	600 +
340.351.50	by a portable mercury-meter at the site	· ·	travel	travel
	by a portable mercury-meter at the site	measurement site	expenses	expenses



Code	Service / device	Matrix	Unit	Price (CZK)
	Speciation analyses			
340.347.1	Speciation analysis of Al using PCV technique (covering 3 items below)	liquid solution with no pH adjustment and no stabilisation	sample	900
	Monomeric organic Al			
	Total monomeric Al			
	Acid soluble Al			
340.347.2	Speciation analysis of sulphur (covering 4 items below)	solid homogeneous powdered	sample	2,500
	Ionic, exchangeable sulphate	as above		
	Organically bound sulphate	as above		
	Organically bound sulphide sulphur (reduced)	as above		
	Total content of sulphur (ICP OES)	as above		
340.347.3	Speciation analysis of iron (covering 3 items below)	liquid stabilised solution	sample	300
	Determination of bivalent Fe (UV VIS)	as above		
	Determination of trivalent Fe (UV VIS)	as above		
	Determination of total Fe (ICP EOS)	as above		
	Speciation analysis of phosphorus:			
340.347.4	Simplified fractionation: inorganic phosphate, organically bound phosphate (2 fractions in total)	solid homogeneous powdered	sample	500
340.347.5	Phosphate fractionation: exchangeable, Al/Fe oxyhydroxide bound, organically bound, apatite phosphate (4 fractions in total)	solid homogeneous powdered	sample	900

Code	Service / device	Matrix	Unit	Price (CZK)
	UV VIS spectrometry			
340.349.1	Determination of absorbance without adding an auxiliary	turbidity-free	sample	100
340.349.1	reagent	aqueous solution	Sample	100
340.349.2	Determination of absorbance at 410 nm	turbidity-free	sample	100
340.349.2	Determination of absorbance at 410 mm	aqueous solution		100
340.349.3	Determination of absorbance at 254 nm	turbidity-free natural	sample	100
340.343.3	Determination of absorbance at 234 min	water		100
340.349.4	Determination of ferrous cation	stabilized, turbidity-	sample	120
	Determination of ferrous cation	free aqueous solution	Sample	
340.349.5	Determination of phosphate through	liquid, acidified,	sample	120
340.349.3	phosphomolybdenane	filtered	Sample	120
340.349.6	Determination of sulphide	stabilized, turbidity-	sample	120
340.349.0	Determination of sulphide	free aqueous solution	sample	120
340.349.7	Determination of ammonium ion	acidified, turbidity-	cample	120
340.349.7		free aqueous solution	sample	120

Code	Service / device	Matrix	Unit	Price (CZK)
	Differential thermal analysis and differential scanning			
	calorimetry, without interpretation			
340.349.11	Determination in corundum crucibles in air atmosphere,	solid, powdered,	sample	1.450
340.349.11	temperature range 20–1000 °C. DTA and DSC record	homogenised		1,450
340.349.12	Determination in platinum crucibles in Ar atmosphere,	solid, powdered,		1,800
340.349.12	temperature range 20–700 °C. DTA and DSC record	homogenised	sample	
		solid novedored		Please
340.349.13	Special works according to customer request	solid, powdered, homogenised	sample	contact dr.
		nomogeniseu		Matoušková

Code	Service / device	Matrix	Unit	Price (CZK)
	Determination of inorganic, organic and total carbon -			
	DOC, IC, TOC			
340.349.20	Determination of dissolved organic carbon (DOC) in a	aguagus salution	cample	350
340.349.20	liquid sample	aqueous solution	sample	350
340.349.21	Determination of total inorganic carbon (TOC) in a liquid	aguagus salution	cample	350
340.349.21	sample	aqueous solution	sample	350
340.349.22	Determination total carbon (TC) in solid sample	solid, powdered,	sample	800



		homogenised		
340.349.23	Determination of total inorganic carbon (IC) in a solid sample after decomposition with H ₃ PO ₄ (e.g., cave materials, industrially mined rocks)	solid, powdered, homogenised	sample	800
340.349.24	Determination of total organic carbon (TOC) in a solid sample of geological origin (e.g., slate, shale, coal, carbonaceous rocks)	solid, powdered, homogenised	sample	850

Code	Service / device	Matrix	Unit	Price (CZK)
	Simultaneous determination of C, H, N, S			
340.349.30	Determination of total organic C, H, N, S content; typical	solid, powdered,	sample	360,-
	for biomass, soil, environmental samples	homogenised		

Department of Paleobiology and Paleoecology

Micropaleontological analyses

Specifications for samples (price variations)/notes: Samples have to be prepared in accordance with demands of the laboratory workers, see the contacts below.

Contacts: Ladislav Slavík, slavík@gli.cas.cz, +420 233 087 247; Jiří Bek, bek@gli.cas.cz, +420 233 087 264

Code	Service	Unit	Price (CZK)
	Palynological analysis		
330.1.1	Preparation of palynological sample (maceration)	sample	900
330.1.2	Palynological evaluation report	sample	1,100
	Conodont sample analysis		
330.1.3	Conodont sample maceration, preparation of residue	each 5 kg	2,300
330.1.4	Concentration of insoluble residue	see 310.1.7	see 310.1.7
330.1.5	Biostratigraphic analysis	sample	2,800



Department of Geological Processes

Laboratory of mineral separation

Specifications for samples (price variations)/notes: The listed prices are approximate. Price increase or decrease may occur after the placement of an order and consultation, depending on the number of samples, the amount of material, the type of rock etc. Sample size should not exceed ca. 10 cm, otherwise a surcharge of CZK 50 is imposed for the crushing of oversized samples.

Contact: Lucie Mrázková, mrazkova@gli.cas.cz or Martin Šťastný, stastny@gli.cas.cz, +420 233 087 233, +420 233 087 285. For rock block cutting with diamond cutting discs (310.1.20): Ladislav Polák, polakl@gli.cas.cz, +420 233 087 212; Michal Roll, roll@gli.cas.cz, +420 233 087 233; Šimon Kdýr, kdyr@gli.cas.cz, +420 272 690 115.

Code	Service	Unit	Price (CZK)
310.1.1	Crushing	each 5 kg	120
310.1.2	Draining	each 5 kg	80
310.1.3	Drying	each 5 kg	45
310.1.4	Floating	each 5 kg	100
310.1.5	Sieving	each 5 kg	140
310.1.6	Magnetic separation	each 5 kg	250
310.1.7	Separation in bromoform	each 100 g	200
310.1.8	Separation in methylene iodide	each 5 g	200
310.1.9	Separation in Clerici solution	each 5 g	220
310.1.10	Purification by centrifugation in heavy liquids	each 2 g	140
310.1.11	Purification in magnetic separator	each 3 g	90
310.1.12	Grinding for analytic methods	sample	190
310.1.13	Annealing of sample under 105 °C	sample	45
310.1.14	Annealing of sample under 550 °C	sample	80
310.1.15	Decomposition of organic matter with hydrogen peroxide	sample	130
310.1.16	Decomposition of carbonate with monochloroacetic acid	sample	45
310.1.17	Separation of clay fraction	sample	110
310.1.18	Sample saturation by ethylene glycol	sample	50
310.1.19	Rock block cutting	hour	1,000

Clean and ICP-MS/TIMS laboratory

Specifications for samples (price variations)/notes: Powdered samples for the analyses (200 mesh) should weigh at least 0.5 g and MUST be delivered in plastic bottles whose size reflects the amount of the sample. For the determination of highly siderophile elements (Os, Ir, Ru, Pd, Pt and Re) and ¹⁸⁷Os/¹⁸⁸Os isotopic ratios, we request 0.2 to 5 g of material depending on the expected concentrations of these elements (rock matrix). For archaeological materials and their Sr and Pb isotopic analyses, at least 20 mg and 0.2 g of material, respectively, are needed. The Re-Os dating of molybdenite usually requires 10 to 50 mg of material depending on the size of molybdenite crystals and expected Re contents. In general, all decomposition procedures and the type of the analyses should be consulted with laboratory staff listed below.

Solid samples for the laser ablation analyses should be prepared as rounded-polished sections (2.5 cm in diameter) and/or thin sections at least 150 μ m thick (300 μ m if possible). Exact positions of the analysed points need to be adjusted before the analyses; please consult the details on this with the corresponding laboratory staff listed below.

The listed prices may vary depending on the amounts of analysed samples, the number of analysed elements, type of material, solution matrix etc.

Contact: Jana Ďurišová, <u>durisova@gli.cas.cz</u>, +420 233 087 212 (ICP-MS/LA-ICP-MS trace element and Pb isotopic analyses); Šárka Matoušková, <u>matouskov@gli.cas.cz</u>, +420 233 087 212 (ICP-MS trace element analyses, LA-ICP-MS, U-Pb carbonate geochronology, Pb isotopic analyses); Lukáš Ackerman, <u>ackerman@gli.cas.cz</u>, +420 233 087 240 (clean lab, highly siderophile element and Re-Os isotopic analyses, Re-Os geochronology, TIMS analyses); Martin Svojtka, <u>svojtka@gli.cas.cz</u>, +420 233 087 242 (LA-ICP-MS U-Pb geochronology and LA-ICP-MS trace element analyses); Jiří Sláma, <u>slama@gli.cas.cz</u>, +420 233 087 236 (LA-ICP-MS U-Pb geochronology and Lu-Hf geochronology isotopic analyses)

Code	Service / device	Unit	Price (CZK)
	Decomposition and separation protocols		
310.2.1	Decomposition of silicate rocks (HF + HNO ₃)	sample	480
310.2.2	Decomposition of silicate rocks (HF + HNO ₃) with fusion (e.g., zircon and/or spinel-bearing rocks)	sample	750
310.2.3	Decomposition of carbonate-rich rocks	sample	300
310.2.4	Decomposition of silicate rocks and/or sulphides for the determination of sulphur contents	sample	420
310.2.5	Decomposition of silicate rocks and/or sulphides for the determination of Ir, Ru, Pd, Pt + anion exchange separation + determination of Ir, Ru, Pd, Pt contents by ICP-MS	sample	5,200



	(isotopic dilution); data processing		
240.2.6	Silicate rock digestion, ion chromatography separation of Hf and determination of Hf		2.500
310.2.6	isotopic composition (176Hf/177Hf) using MC-ICP-MS instrument; data processing	sample	2,500
	Silicate rock digestion, ion chromatography separation of Hf, determination of Hf		
310.2.7	isotopic composition (176Hf/177Hf) and precise Hf concentration (isotopic dilution)	sample	3,500
	using MC-ICP-MS instrument; data processing	·	,
	Silicate rock digestion, ion chromatography separation of Hf and Lu, determination		
310.2.8	of Hf isotopic composition (176Hf/177Hf) and precise Hf and Lu concentration (isotopic	sample	4,800
	dilution) using MC-ICP-MS instrument; data processing		,
	Decomposition of SiO ₂ -rich silicate rocks (e.g., basalt) for the determination of Re,		
	Os, Ir, Ru, Pd, Pt + anion exchange and CHCl ₃ separation + determination of Ir, Ru, Pd,		0.400
310.2.9	Pt, Re contents by ICP-MS (isotopic dilution) + determination of Os content and	sample	8,100
	¹⁸⁷ Os/ ¹⁸⁸ Os by N-TIMS; data processing		
	Decomposition of SiO ₂ -poor rocks (e.g., peridotite, chromitite) for the determination		
	of Re, Os, Ir, Ru, Pd, Pt + anion exchange and CHCl ₃ separation + determination of Ir,		
310.2.10	Ru, Pd, Pt, Re contents by ICP-MS (isotopic dilution) + determination of Os content	sample	8,100
	and ¹⁸⁷ Os/ ¹⁸⁸ Os by N-TIMS; data processing		
	Decomposition of silicate or carbonate-rich rocks (including furnace ashing for C-rich		
	samples); Mo separation by anion exchange chromatography; determination of	_	
310.2.11	stable Mo isotopic composition (δ^{98} Mo) a Mo content (isotopic dilution) using MC-	sample	5,050
	ICPMS instrument; data processing		
	Decomposition of silicate rocks (fusion); Si separation by ion exchange		
310.2.12	chromatography; determination of Si isotopic composition (δ30Si) by MC-ICPMS	sample	5,800
	instrument, data processing	54	3,000.
	Decomposition of archeological material (enamel, bones) or carbonate; Sr separation		
310.2.13	using ion exchange chromatography, determination of 87Sr/86Sr using TIMS; data	sample	2,820
310.2.13	processing	Sample	2,020.
	Decomposition of archeological material (e.g., metal artefacts, slag) for the		
	determination of Re, Os + anion exchange and CHCl ₃ separation + determination of		
310.2.14	Re contents by ICP-MS (isotopic dilution) + determination of Os content and	sample	5,700
	¹⁸⁷ Os/ ¹⁸⁸ Os by N-TIMS; data processing		
	Decomposition of archeological material (enamel, bones); Sr and Pb separation using		
310.2.15	ion exchange chromatography, determination of 87Sr/86Sr, 206Pb/204Pb, 207Pb/204Pb a	sample	4,200
	²⁰⁸ Pb/ ²⁰⁴ Pb using TIMS; data processing	55	,,
	Decomposition of silicate- or carbonate-rich rocks; Sr and Nd separation using ion		
310.2.16	exchange chromatography, determination of ⁸⁷ Sr/ ⁸⁶ Sr and ¹⁴³ Nd/ ¹⁴⁴ Nd using TIMS;	sample	5,700
01012110	data processing	Sample	3,700.
	Decomposition of silicate- or carbonate-rich rocks; Sr, Nd and Pb separation using ion		
310.2.17	exchange chromatography, determination of ⁸⁷ Sr/ ⁸⁶ Sr, ¹⁴³ Nd/ ¹⁴⁴ Nd, ²⁰⁶ Pb/ ²⁰⁴ Pb,	sample	7,200
01012117	²⁰⁷ Pb/ ²⁰⁴ Pb a ²⁰⁸ Pb/ ²⁰⁴ Pb using TIMS; data processing	Sample	7,200.
	Decomposition of silicate rock or biological material; Cd separation by anion		
310.2.18	exchange chromatography; determination of stable Cd isotopic composition	sample	4,700
310.2.10	$(\delta^{114}\text{Cd})$ and Cd content (isotopic dilution) using TIMS instrument; data processing	Sumple	4,700.
	Sm-Nd geochronology and high-precision Sm-Nd analyses (decomposition of silicate		
	rocks or minerals; Sm and Nd separation using ion exchange chromatography,		
310.2.19	determination of Sm and Nd contents using isotopic dilution and TIMS and	sample	5,500
	¹⁴³ Nd/ ¹⁴⁴ Nd using TIMS; data processing)		
	Re-Os geochronology of molybdenite (sample decomposition, determinations of Re		
310.2.20	and ¹⁸⁷ Os contents using N-TIMS, data processing); error on the determined age is in	sample	12,500
01012120	the range of 0.6–1.2%	Sample	12,300.
	ICP-MS analyses (HR-ICP-MS Element 2)		
	Solution trace element analyses		
	Low mass resolution (Li, Be, Rb, Sr, Y, Cs, Ba, Zr, Hf, Nb, Ta, Pd, Ag, Cd, Sn, Sb, Te, Pt,		
310.3.1	Au, Tl, Pb, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Th, U)	sample	300–1,000
310.3.2	Middle/High mass resolution (Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, Ge, As, Se, P)	sample	400–1,000
310.3.2	Solution isotopic ratios analyses	Janupic	
310.4.1	Pb: ²⁰⁶ Pb / ²⁰⁷ Pb, ²⁰⁸ Pb / ²⁰⁶ Pb (precision < 0.5 %)	sample	800
310.4.1		sample	٥٥٥
310.4.2	Re (determination of isotopic ratios for the concentration calculation using isotopic	sample	800
	dilution technique with a precision of <0.2 %)		
310.4.3	Re, Ir, Ru, Pd, Pt (determination of isotopic ratios for the concentration calculation	- استسا	2,400
	using isotopic dilution technique with a precision of <0.2%)	sample	10.000
310.4.4	U-Th geochronology of carbonates using ICP-MS, sample decomposition will be	sample	10,900



	accomplished by external laboratory – ING PAN Warsaw, will be charged together with ICP-MS measuring in total		
	Laser ablation ICP-MS analyses		
310.5.1	Laser ablation trace element ICP-MS analyses	hour	2,400
310.5.2	U-Pb zircon geochronology using laser ablation ICP-MS analyses	hour	2,400
	High-precision isotopic analyses using TIMS (Thermo Triton Plus)		
310.6.1	87Sr/86Sr isotopic analyses	sample	600
310.6.2	¹⁴³ Nd/ ¹⁴⁴ Nd isotopic analyses	sample	1,250
310.6.3	²⁰⁶ Pb/ ²⁰⁴ Pb, ²⁰⁷ Pb/ ²⁰⁴ Pb and ²⁰⁸ Pb/ ²⁰⁴ Pb isotopic analyses	sample	1,250
310.6.3	¹⁸⁷ Os/ ¹⁸⁸ Os isotopic analyses (N-TIMS technique)	sample	1,250

Fission track analysis (FTA) laboratory

Specifications for samples (price variations)/notes: The clients may deliver bulk rock samples and use the Laboratory of mineral separation (see 310.1.1 - 310.1.20), or already separated apatite grains. The details need to be consulted and agreed upon in advance with the laboratory staff. The price below does not include potential mineral separation.

Contact: Dagmar Kořínková, korinkova@gli.cas.cz, +420 233 087 216; Martin Svojtka, svojtka@gli.cas.cz, +420 233 087 242

FTA data can be effectively complemented by follow-up time from the Low-temperature (U-Th)/He (apatite, zircon) dating method using the Alphachron thermochronology instrument. This method is implemented by the Department of Neotectonics and Thermochronology at the Institute of Rock Structure and Mechanics of the Czech Academy of Sciences. The price of analyses and associated sample preparation must be consulted directly with the head of the laboratory: Erhan Gülyüz, gulyuz@irsm.cas.cz, +420 266 009 325) or Ivana Kolesárová (kolesarova@irsm.cas.cz, +420 266 009 322)

Code	Service / device	Unit	Price (CZK)
	Fission track dating and modelling of time-temperature curves		
	Preparation of polished sections from separated minerals (apatite); etching of		
310.7	samples and preparation for analysis, fission track analysis, age calculation using	sample	6,000
	ICP-MS and modelling of results		

Field gamma-ray spectrometry

Specifications for samples (price variations)/notes: The client should be well prepared for fieldwork and should provide information needed for the evaluation of measurement difficulty and effectiveness prior to the onset of fieldwork, including the measurement interval, safety etc. (maps, photographic documentation of measured outcrops or strata where possible).

Contact: Leona Chadimová, chadimova@gli.cas.cz, +420 233 087 280

Code	Service / device	Unit	Price (CZK)
	Field gamma-ray spectrometry		
310.8	Measurements on GR-320 Exploranium; RS-230 BGO Super-SPEC Georadis	day (including an operator)	7,900

Soil/sedimentological descriptions and analyses

Specifications for samples (price variations)/notes: Please provide bulk samples for grain size and pH analyses (fraction below 1.5 mm) in amounts of at least 20 g. Micromorphological analyses are performed if the samples or thin sections are provided. For a full geoarchaeological description of the site it is preferred that the samples are collected in the field by a specialist. Field reconnaissance without further sampling will be charged based on the agreement.

Contact: Lenka Lisá, <u>lisa@gli.cas.cz</u>, +420 233 087 230

Code	Service / device	Unit	Price (CZK)
	Gran size analyses and pH		
310.9.1	Basic grain size analysis using Cillas 2000 laser analyser	sample	320
310.9.2	Grain size analysis without carbonates	sample	320
310.9.3	Grain size analysis without organic matter	sample	320
310.9.4	pH	sample	100
	Micromorphology		
310.9.5	Micromorphological description and interpretation of small-size thin sections (including sampling and thin section preparation)	thin section	2,500
310.9.6	Micromorphological description of thin section of mammoth size (including sampling and thin section preparation)	thin section	8,200
310.9.7	Micromorphological description of thin sections provided to the laboratory	thin section	3,100



Department of Paleomagnetism

Specifications for samples (price variations)/notes: Specifications for rock samples: samples must be acquired by the staff of the Department of Paleomagnetism, Institute of Geology, Czech Acad Sci, or by individuals trained by the staff. Travel expenses of the Department of Paleomagnetism staff are not included in the price list and will be calculated separately according to the sampling location. Samples of solid rocks for analyses must have one of the following shapes and dimensions: (1) a cube 2×2×2 cm in size or (2) a cylinder 2.5 cm in diameter and 2.1 cm in length. Samples of unconsolidated (loose) sediments/soils must be placed in a special non-magnetic plastic box with a volume of 6.7 cm³.

The samples must be clean, compact, and free of any leaking water/liquids.

Sample transport by train, underground, trolleybus, and/or tramway must be avoided.

Price of instrument usage for PhD students measuring their samples in the paleomagnetic lab will be calculated on an *ad hoc* basis depending on the duration and type of work and the degree of needed assistance by the trained staff of the Institute of Geology, Czech Acad Sci.

Contact: Lada Kouklikova, kouklikova@gli.cas.cz; Šimon Kdýr, kdyr@gli.cas.cz; +420 725 261 015, +420 773 071 208

Sample preparation for paleomagnetic and rock magnetic study

Code	Service/device	Unit	Price (CZK)
360.1.1	Sampling	unit*	*
360.1.2	Acquisition of oriented hand sample	sample	80
360.1.3	Acquisition of drilled oriented sample	sample	160
360.1.4	Acquisition of loose oriented sample	sample	80**
360.1.5	Mechanical preparation of a rock sample into cube samples (1)	sample cube	110
360.1.6	Mechanical preparation of a 2.5 cm diam. core sample into cylinder samples (2)	sample cylinder	30
360.1.7	Mechanical preparation of a rock sample into cylinder samples (2)	sample cylinder	90
360.1.8	Magnetic separation using the Wolbach method	sample	160

^{*}unit price includes: direct person/day costs (daily allowances according to CZ law + accommodation – multiplied by the number of personnel involved in sampling) and costs of transport according to CZ law incl. car consumption and use per 1 km (car).

Paleomagnetic study

The table below shows prices for the first ten (pilot) samples; for additional samples 75% of the price will be charged.

Specification of complex analyses:

RM measurement during a thermal demagnetization – sample cutting, 17 RM steps, 16 TD steps, 17 k step.

RM measurement during alternating field demagnetization – sample cutting, 15 RM steps, 14 AF steps, 1 k step.

Code	Service/device	Unit	Price (CZK)
360.2.1	Remanent magnetization (RM) using the JR-5 or JR-6A Spinner Magnetometer	step	90
360.2.2	Remanent magnetization (RM) using the Superconducting Rock Magnetometer	step	180
360.2.3	Thermal demagnetization TD (MAVACS, MMTD80)	step	60
360.2.4	Alternating field demagnetization AF (LDA -5A)	step	30
360.2.5	Magnetic susceptibility k using KLF-3A	step	30
360.2.6	RM measurement during thermal demagnetization	analysis	2,650
360.2.7	RM measurement during alternating field demagnetization	analysis	1,750
360.2.8	Interpretation of paleomagnetic data and creation of graphical outputs	hour	750

Study of rock magnetic properties

The table shows prices for the first ten (pilot) samples, for additional samples 75 % of the price will be charged.

Specification of complex analyses:

Standard magnetomineralogical analysis – sample cutting, 36 RM steps, 24 DC field magnetization steps, 12 AF steps, dependence of magnetic susceptibility on high temperature (CS-3) and low temperature (CS-L).

Simplified magnetomineralogical analysis – sample cutting, 36 RM steps, 24 DC field magnetization steps, 12 AF steps, high temperature magnetic susceptibility dependence (CS-3)

Lowrie method 3 IRM acquisition steps – 17 RM steps, 16 TD steps, 17 k steps

Kruiver's IRM acquisition curve analysis – 24 RM steps, 24 DC field magnetization steps

Code	Service/device	Unit	Price (CZK)
360.3.1	Direct field magnetization	step	30
360.3.2	Alternating field demagnetization AF (LDA -5A)	step	30

^{**}plus the price for a plastic box (subject to change).



360.3.3	Anhysteresis magnetization on LDA-5A/PAM1	step	30
360.3.4	Field-dependent magnetic susceptibility (MFK-1)	analysis	50
360.3.5	Frequency dependence of magnetic susceptibility (MFK-1)	analysis	50
360.3.6	Measurement and calculation of Königsberg Q parameter	analysis	110
360.3.7	Temperature dependence of magnetic susceptibility up to +700 °C (CS-3)	analysis	1,230
360.3.8	Temperature dependence of magnetic susceptibility in range of -190 – 0 °C (CS-L)	analysis	1,230
360.3.9	Anisotropy of magnetic susceptibility (KLY-4A, MFK-1)	analysis	60
360.3.10	Anisotropy of anhysteretic remanent magnetization (LDA5, PAM1, JR6)	analysis	880
360.3.11	Standard magnetomineralogical analysis	analysis	3,630
360.3.12	Simplified magnetomineralogical analysis	analysis	2,750
360.3.13	Lowrie method	analysis	2,750
360.3.14	Acquisition of IRM including Kruiver analysis	analysis	1,880
360.3.15	Interpretation of magnetomineralogical data and creating graphic outputs	hour	750

Other magnetic methods

 $Notes: Inst\ Geol\ staff\ members\ can\ borrow\ the\ SM-30\ magnetic\ susceptibility\ meter\ free\ of\ charge.$

Code	Service/device	Unit	Price (CZK)
360.4.1	Vacuuming to 1×10 ⁻⁶ mbar (Pfeifer HiCube 80)	process*	12,000
360.4.2	Measurement of magnetic field by Fluxgate magnetometer (Applied Physics FM 520 and/or C3MAG), measurement with an operator not including travel expenses	hour	750
360.4.3	Measurement of magnetic susceptibility in the field (SM30, KT-10) measurement with an operator not including travel expenses	hour	370

^{* 4} days-long lasting process



Department of Physical Properties of Rocks

Specifications for samples (price variations)/notes: The listed prices are approximate. The final price is a subject to consultation depending on the number of samples, the amount of material, the type of rock, etc.

Contact: Matěj Petružálek, petruzalek@gli.cas.cz, +420 608 061 177; Tomáš Lokajíček, tl@gli.cas.cz, +420 603 439 096

Code	Service / device	Unit	Price (CZK)
	Preparation of specimens		
370.1.1	Cutting of a rock block	specimen	600
370.1.2	Cube or prism preparation	specimen	1,850
370.1.3	Sawing of a drilled core	specimen	750
370.1.4	Preparation of a cylindrical specimen (drilling, sawing, grinding)	specimen	900
370.1.5	Preparation of a spherical specimen (5 cm in diameter)	specimen	24,000
370.1.6	Preparation of a slab specimen	specimen	900
370.1.7	Diameter reduction by milling	specimen	1, 250
370.1.8	Grinding the top and bottom of specimen	specimen	700
370.1.9	Cutting, drilling or milling without water cooling	specimen	1, 050
	Strength tests*		
370.1.10	Uniaxial compression test	test	900
370.1.11	Direct tension test	test	1,200
370.1.12	Simple shear test	test	850
		3 tests	
370.1.13	Shear compression test	(different	1,850
		inclinations)	
370.1.14	Brazilian tension test	test	650
370.1.15	Tensile strength (Bending test)	test	1,350
370.1.16	Triaxial test	test	6,000
	Determination of elastic properties**		
370.1.17	Static electic medulus from uniquial compressive leading	test	2,100
3/0.1.1/	Static elastic modulus from uniaxial compressive loading	(1 loop)	2,100
370.1.18	Static elastic modulus from triaxial compressive loading	test	8,000
370.1.18	Static elastic modulus from triaxial compressive loading	(1 loop)	8,000
	Ultrasonic testing		
370.1.19	P and S wave velocities, dynamic elastic modulus	1 transmission	5,650
0,011.10		direction	
370.1.20	P and S wave velocities, dynamic elastic modulus during uniaxial compressive	10 times during	10,000
	loading	the test	
		132	
270424	Detailed P and S wave velocity anisotropy measured on a spherical specimen,	independent	60.000
370.1.21	full stiffness tensor (21 components), hydrostatic pressure up to 400 MPa	transmission	60,000
		directions, 7	
	Index manageries	pressure levels	
270 1 22	Index properties Grain density (specific gravity)	2 comples	720
370.1.22	1 1 2 1	3 samples	720 625
370.1.23 370.1.24	Density (Buoyancy method) Density (calliper method)	3–5 specimens	635 635
	Water content	3–5 specimens	
370.1.25 370.1.26		3–5 specimens	445
370.1.26	Water absorption Porosity	3–5 specimens	490 2,100
370.1.27	Slate durability test	3–5 specimens	
370.1.29	Swell index test	3–5 specimens 3–5 specimens	1, 200 2,700
370.1.29	Permeability (coefficient of hydraulic conductivity)	specimen	4,560
370.1.30	Other services	specimen	4,300
270 1 21		500 a	620
370.1.31 370.1.32	Milling Drying	500 g 24 hours	620 690
	, ,		1,440
370.1.32 370.1.33	Particle size distribution (separation by sieving)	sample	2,130
	Particle size distribution (separation by sedimentation) is test specimens must be considered for testing each sample	sample	∠,13U

^{*}at least 3–5 test specimens must be considered for testing each sample

^{**} at least 3 test specimens must be considered for testing each sample



Information Centre and Library

Specifications for samples (price variations)/notes: The prices can change depending on current prices in co-operating libraries. **Contact:** library@gli.cas.cz; +420 233 087 272, +420 233 087 273

Service / method	Unit	Price (CZK)
Copying in the study room	1 item	2
Interlibrary reprographic service within the CR via VPK	1 page	2
Interlibrary reprographic service within the CR as an electronic delivery of a printed copy via VPK – a scan of a printed document (for libraries only)	1 page	2 + copyright fee*
Interlibrary reprographic service within the CR as an electronic delivery of a printed copy via VPK – a copy from licensed online databases (for libraries only)	up to 7 pages from 8 pages	5 / page 2 / article
International interlibrary reprographic service (basal price – subject to change, specified by the requested library)	every 10 pages	80
International interlibrary reprographic service (higher price – subject to change, specified by the requested library)	1 article	350
International interlibrary loan service (basal price)	1 volume	250
International interlibrary loan service (higher price)	1 volume	500

^{*}Copyright fee ranges between CZK 12.10–90.75 (including VAT) depending on the number of pages

 $VPK = \textit{Virtual Polytechnical Library (a joint project of some Czech libraries, Institute of Geology is a part of this project)} - for further information see \\ \underline{\text{https://www.techlib.cz/en/2879-virtual-polytechnical-library-vpk)}}$

Service / method	Ring diameter (mm)	Price (CZK)
Ring-binding machine OPERA 25 (format A4)	6	8 / 14
	8	8 / 15
	10	10 / 16
	12.5	10 / 17
	14	10 / 18
	16	11 / 20
	19	12 / 22
	22	13 / 24
	25	14 / 26
	32	19 / 28

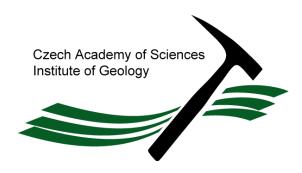
Service / method	Туре	Price (CZK)
	1; 2; 3; 5; 7	28 / 35
Thermo-binding machine UniBinder 120	9; 12	29 / 36
(format A4)	15	33 / 41
	18	36 / 44
	21	39 / 48

Expertises

Employees of the Institute of Geology may, upon request and under a contract, elaborate a professional expertise, an expert opinion or other report in scientific fields covered by the individual departments of the Institute of Geology. In reports not requiring analytical data or instrumental measurements, the time spent on such report is remunerated by CZK 1,200.- / hour.



Thank you for your interest to co-operate





Compiled by M. Filippi (<u>filippi@gli.cas.cz</u>) based on information provided by heads of departments and analytical workers.

English revised by J. Adamovič WEB:

https://www.gli.cas.cz/cs/ceniky https://www.gli.cas.cz/en/price-lists